

|   |     |   |  |    |    |                  |
|---|-----|---|--|----|----|------------------|
| L12   | 175 | (US-20040159462-\$).did. or<br>(US-3726002-\$ or US-3904934-\$<br>or US-4221047-\$ or US-4374868-\$<br>or US-4383363-\$ or US-4603023-\$<br>or US-4667220-\$ or US-4706167-\$<br>or US-4770900-\$ or US-4774126-\$<br>or US-4775573-\$ or US-4783722-\$<br>or US-4788766-\$ or US-4792646-\$<br>or US-4830264-\$ or US-4897918-\$<br>or US-4954877-\$ or US-4954878-\$<br>or US-4978639-\$ or US-5043794-\$<br>or US-5065227-\$ or US-5153987-\$<br>or US-5177594-\$ or US-5229647-\$<br>or US-5243142-\$ or<br>US-5259110-\$).did. or<br>(US-5263243-\$ or US-5319159-\$<br>or US-5346750-\$ or US-5384689-\$<br>or US-5404044-\$ or US-5438223-\$<br>or US-5440075-\$ or US-5470790-\$<br>or US-5473120-\$ or US-5474458-\$<br>or US-5478972-\$ or US-5481795-\$<br>or US-5484647-\$ or US-5493096-\$<br>or US-5515604-\$ or US-5536362-\$<br>or US-5576519-\$ or US-5599744-\$<br>or US-5608265-\$ or US-5619071-\$<br>or US-5638598-\$ or US-5652042-\$<br>or US-5674785-\$ or US-5675889-\$<br>or US-5689091-\$ or US-5699613-\$<br>or US-5717247-\$).did. or<br>(US-5719354-\$ or US-5739585-\$<br>or US-5744862-\$ or US-5763939-\$<br>or US-5780143-\$ or US-5817405-\$<br>or US-5834848-\$ or US-5854507-\$<br>or US-5870289-\$ or US-5876842-\$<br>or US-5883335-\$ or US-5883426-\$<br>or US-5912510-\$ or US-5949030-\$<br>or US-5950306-\$ or US-5952611-\$<br>or US-6010769-\$ or US-6011311-\$<br>or US-6013948-\$ or US-6020629-\$<br>or US-6025648-\$ or US-6049129-\$<br>or US-6050832-\$ or US-6072233-\$<br>or US-6093969-\$ or US-6096411-\$<br>or US-6107109-\$).did. or<br>(US-6110825-\$ or US-6114240-\$<br>or US-6119338-\$ or US-6130111-\$<br>or US-6137164-\$ or US-6169010-\$<br>or US-6177723-\$ or US-6188127-\$<br>or US-6198168-\$ or US-6201194-\$<br>or US-6203652-\$ or US-6204456-\$<br>or US-6211487-\$ or US-6222136-\$<br>or US-6235554-\$ or US-6239496-\$<br>or US-6243946-\$ or US-6270607-\$<br>or US-6271056-\$ or US-6274929-\$<br>or US-6281044-\$ or US-6281448-\$<br>or US-6294837-\$ or US-6297458-\$<br>or US-6297660-\$ or US-6303881-\$<br>or US-6307394-\$).did. or<br>(US-6318846-\$ or US-6323436-\$<br>or US-6329610-\$ or US-6335565-\$<br>or US-6337510-\$ or US-6340841-\$ | US-PGPUB;<br>USPAT;<br>USOCR;<br>JPO;<br>DERWENT | OR | ON | 2005/05/18 08:44 |
| Search History 5/18/05 10:18:38 AM Page 2<br>C:\Documents and Settings\Ciprian\Documents\FAST\Workspaces\%conductive-vias-laser-drill.wsp |     |   |  |    |    |                  |

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|-----|-----|--|---|----|----|------------------|
| L13 | 7   | "6620731"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 08:48 |
| L14 | 3   | "6833613"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 08:48 |
| L15 | 50  | "6294837"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 08:48 |
| L16 | 114 | "6107109"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 08:48 |
| L17 | 130 | 13 14 15 16  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 08:49 |
| L18 | 290 | 12 17  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 08:49 |
| L19 | 231 | 18 and ((substrate board carrier)<br>with (hole vias opening)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:02 |
| L20 | 40  | 19 and ((solder near wave)<br>capillary)                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:05 |

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|-----|----|---|------------------------------|----|----|------------------|
| L21 | 40 | ("5046239"   "5063177"  <br>"5166097"   "5172050"  <br>"5229647"   "5236551"  <br>"5249450"   "5420520"  <br>"5426072"   "5483741"  <br>"5487999"   "5495667"  <br>"5528080"   "5541525"  <br>"5559444"   "5578526"  <br>"5592736"   "5607818"  <br>"5634267"   "5674785"  <br>"5686317"   "5716218"  <br>"5756395"   "5781022"  <br>"5783461"   "5796264"  <br>"5801452"   "5815000"  <br>"5834945"   "5869974"  <br>"5878485"   "5896036"  <br>"5915977"   "5929647"  <br>"5931685"   "6107109"  <br>"6114240"   "6242935"  <br>"6294837"   "6314641").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/05/18 09:15 |
| L22 | 45 | ("5046239"   "5063177"  <br>"5172050"   "5229647"  <br>"5236551"   "5249450"  <br>"5404044"   "5420520"  <br>"5426072"   "5483741"  <br>"5487999"   "5528080"  <br>"5541525"   "5557844"  <br>"5578526"   "5592736"  <br>"5607818"   "5633122"  <br>"5634267"   "5674785"  <br>"5686317"   "5716218"  <br>"5781022"   "5783461"  <br>"5783865"   "5796590"  <br>"5801452"   "5815000"  <br>"5834945"   "5869974"  <br>"5876580"   "5878485"  <br>"5896036"   "5915977"  <br>"5929647"   "5931685"  <br>"5936847"   "5952840"  <br>"5962921"   "6013948"  <br>"6040702"   "6107109"  <br>"6107119"   "6114240"  <br>"6162997").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/05/18 09:26 |
| L23 | 89 | ("6107109").URPN.   | USPAT                        | OR | ON | 2005/05/18 09:31 |
| L24 | 78 | ("4830264").URPN.   | USPAT                        | OR | ON | 2005/05/18 09:39 |
| L25 | 5  | ("3871015"   "4332341"  <br>"4412642"   "4462534"  <br>"4708281").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/05/18 09:44 |

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|-----|-----|---|---|----|----|------------------|
| L26 | 57  | ("5046239"   "5063177"  <br>"5172050"   "5222014"  <br>"5229647"   "5236551"  <br>"5249450"   "5404044"  <br>"5420520"   "5426072"  <br>"5483741"   "5484647"  <br>"5487999"   "5528080"  <br>"5541525"   "5557844"  <br>"5578526"   "5592736"  <br>"5607818"   "5633122"  <br>"5634267"   "5674785"  <br>"5686317"   "5716218"  <br>"5739585"   "5781022"  <br>"5783461"   "5783865"  <br>"5796590"   "5801452"  <br>"5815000"   "5834945"  <br>"5869974"   "5870289"  <br>"5876580"   "5878485"  <br>"5896036"   "5915977"  <br>"5929647"   "5931685"  <br>"5936847"   "5952840"  <br>"5962921"   "6013948"  <br>"6040702"   "6107109"  <br>"6107119"   "6114240"  <br>"6162997"   "6294837"  <br>"6353328"   "6356098"  <br>"6362637"   "6400172"  <br>"6417685"   "6437591"  <br>"6451624").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2005/05/18 09:47 |
| L27 | 248 | 18 and ((substrate board carrier)<br>with ((hole vias opening) nea4<br>(laser etching)))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:03 |
| L28 | 237 | 18 and ((substrate board carrier)<br>with ((hole vias opening) nea4<br>(laser (dry near etching))))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:04 |
| L29 | 40  | 20 and ((substrate board carrier)<br>with ((hole vias opening) nea4<br>(laser (dry near etching))))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:05 |
| L30 | 74  | 18 and ((substrate board carrier)<br>with ((hole vias opening) near4<br>(laser (dry near etching))))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:05 |

|     |    |                                       |   |    |    |                  |
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| L31 | 23 | 30 and ((solder near wave) capillary) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:06 |
| L32 | 51 | 30 not 31                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/05/18 10:06 |